

# Chemistry 2100 Syllabus Fall 2020

## Organic Chemistry Lab I

**Instructor:** David Connors [dconnors@gsu.edu](mailto:dconnors@gsu.edu)

**Class Meeting Time: Pre lab lecture** Thursday 9:00-9:30 AM via Webex

**Office Hours** Thursday 12:50 PM- 1:50 PM Via WebEx for additional office hours see iCollege for times

Please allow 24 hours for a response via email Monday through Friday, emails on the weekend will not be checked until Monday.

**Please send emails with your GSU email and put the course title in the subject line.**

## **Course Overview**

This course will be administered through Labflow and you will be responsible for completing a lab modules every week for the first 13 weeks. The modules will open on Thursday at 8 AM close on Friday at 8 AM. It is anticipated that you will complete the lab during the scheduled lab time. That is when I will have the most availability for you. I will have a Webex session every Thursday 9:00-9:30 AM to give you a pre-lab lecture and to answer questions about that week's lab. I will then hold another class wide Webex session at 12:50 PM to answer any questions that have come up while you were working on the lab.

## **Course Description**

This is a first semester organic chemistry lab which will introduce the student to techniques and instruments commonly used in an organic chemistry lab. You are expected to complete the lab during the scheduled lab time this includes attending the pre-lab lectures each week and the office hours to answer any question you have about the lab. The bulk of this course will be administered through Labflow in which you will watch videos of labs and concepts and then answer follow up questions. You will receive instruction on iCollege on how to set up your Labflow account **at no cost to you.**

You are given access to all of the lab videos and all of the readings for the whole semester. It is assumed that prior to the Pre-lab meeting you have read and watched all the videos for the current lab module. I will be most available to help you during our scheduled lab time, so that is when I expect you to complete the lab.

## **Course Outcomes**

At the conclusion of this course you will be familiar with basic organic lab techniques, such as liquid-liquid extraction, distillation, and recrystallization. You will also be familiar with IR spectroscopy and will be able to interpret an IR spectrum.

## **Text and Materials**

Textbook : Organic Chemistry Lab Techniques by Lisa Nichols free download

<https://organiclabtechniques.weebly.com/download.html>

You will need a device capable of using the Respondus Lockdown Browser and the Respondus Monitor if you do not have a device you can obtain one here:

<https://cetl.gsu.edu/resources/resources-for-learning-remotely/internet-options/>

A spreadsheet program capable of graphing Microsoft excel is recommended and can be downloaded through the Microsoft Office Suite free of charge here:

<https://technology.gsu.edu/technology-services/it-services/software-computer-purchase/software-download-and-purchase/>

### **Grading**

You will complete 13 quizzes via Labflow each valued at 5 points, the lowest one will be dropped. You will have 12 reports due on Labflow valued at 20 points each. You will have homework that is worth 20 points. You will have a final exam that is worth 80 points.

12 highest quizzes x 5 points (60 points) + 11 reports x 20 points (220 points) + Homework (20points) + Final Exam (80 points) = 400 points

Divide your total points by 4 to get your percent grade.

**A+:** 97% **A:** 93%; **A-:** 90%; **B+:** 87% **B:** 83% **B-:** 80%, **C+:** 77% **C:** 73% **C-:** 70% **D:** 60% **F:**<60%

### **Regrades**

If you wish to request a regrade you must request it within one week of the grade being posted.

### **Make up Policy**

There is no lab make ups, you are given 24 hours to complete each lab module and you are expected to finish the module in that time. It is very important that you do the experiments promptly and not wait until the last moment. If a situation arises in which you need more time, then you will fill out a missed assignment form and put it into the Assignment folder on iCollege.

### **Withdrawals**

The last day to withdraw from this class with a W is October 13<sup>th</sup>.

### **GSU Policy Prohibiting Students from Posting Instructor-Generated Materials on External Sites**

The selling, sharing, publishing, presenting, or distributing of instructor-prepared course lecture notes, videos, audio recordings, or any other instructor-produced materials from any course for any commercial purpose is strictly prohibited unless explicit written permission is granted in advance by the course instructor. This includes posting any materials on websites such as Chegg, Course Hero, OneClass, Stuvia, StuDocu and other similar sites. Unauthorized sale or commercial distribution of such material is a violation of the instructor's intellectual property and the privacy rights of students attending the class, and is prohibited.

Below is a tentative schedule for the course. Changes may be necessary and will be announced in iCollege.

Week	Dates		Suggested Readings
1	27-Aug	<b>Safety (Quiz Only)</b>	
2	3-Sep	<b>MP of Comps and mixtures</b>	p. 309-323
3	10-Sep	<b>Recrystallization</b>	p.157-165, 179-184, p 190
4	17-Sep	<b>Separation of Benzoic Acid</b>	P 242-246
5	24-Sep	<b>Extraction of Caffeine</b>	
6	1-Oct	<b>Synthesis of Ester</b>	
7	8-Oct	<b>Separation by Simple Distillation</b>	p. 251-275
8	15-Oct	<b>Separation by Fractional Distillation</b>	p. 278-284
9	22-Oct	<b>Aldehyde and Ketones</b>	p. 338-340, p. 349-350, 352, 359
10	29-Oct	<b>Classification of Alcohols</b>	p. 349, 352, 353, 356,
11	5-Nov	<b>Identification of a Halide</b>	
12	12-Nov	<b>IR Identification</b>	
13	19-Nov	<b>SN2 Reaction of Nerolin</b>	
14	3-Dec	<b>Final Exam</b>	

This schedule is tentative, and deviations may be necessary.

#### **DEPARTMENT OF CHEMISTRY POLICY STATEMENT REGARDING STUDENT INTEGRITY:**

The Department of Chemistry follows the university policy on academic honesty published in the "Faculty Affairs handbook" and the "On Campus: The Undergraduate Co-Curricular Affairs handbook." Any suspected offenses may be referred to the Department Chair for appropriate action.

All tests taken must represent your individual, unaided efforts. To receive or offer information during an examination is cheating. The use of unauthorized supplementary materials during tests is also cheating. All laboratory work performed during this course must reflect your individual effort. Only original data obtained by your own laboratory experimentation are to be used, except when specifically authorized by your laboratory professor. Data from supplementary sources (handbooks, reference literature, etc.) must be clearly referenced (title, author, volume, page(s), etc.). Falsification or destruction of data constitutes cheating.

#### **Accommodations**

Students who wish to request accommodation for a disability may do so by registering with the Access and Accommodation Center. Students may only be accommodated upon issuance by the Access and Accommodation Center of a signed Accommodation Plan and are responsible for providing a copy of that plan to instructors of all classes in which accommodations are sought

Your constructive assessment of this course plays an indispensable role in shaping education at Georgia State. Upon completing the course, please take time to fill out the online course evaluation.